

Geography of Kalinin Province. Reviewed by B.A. Shirokov. Geog. v shkole no.3:78-79 My-Je '53.

(Kalinin Province--Geography) (Bocharov, M.M.)

KALMYKOVA, Valentina Grigor'yevna; KOREPANOV, Yakov Alekseyevich; LEBEDEV, Aleksandr Aleksandrovich; MAYEVSKIY, Viktor Iosifovich; SHIROKOV, Boris Arkad'yevich; BOCHAROV, M.M., kand.geograf.nauk, red.

经价值是法国付款完全的10年12月的时间,10月1日的10日间,10月1日的10日间,10月1日的10日间,10月1日的10日间,10月1日的10日间,10月1日的10日间,10月1日的10日间,10月1日的10日间,

[Excursions for studying the nature of the native land; collection of articles] Ekskursii po izucheniiu prirody rodnogo kraia; sbornik statei. Pod red. M.M.Bocharova. Kalinin, Knizhnoe izd-vo, 1955. 164 p. (XIRA 12:10)

(Nature study)

NOVIKOV, Aleksandr Aleksandrovich, dvazhdy geroy Sovetskogo Soyuza; SHIROKOV, B.A., red.; GURDZHIYEVA, A.M., tekhn. red.

[Jet equipment in commercial aviation] Reaktivnaie tekhnika v transportnoi aviatsii. Leningrad, Ob-vo "Znanie" (MIRA 17:3)

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Agriculture	2.11	ibarda 1751
The experience of mushering the gransland system in agric.	loore, Moskva, orl'	(1904) 1771 (1904) 1771
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Moverhence in adopting grassland acriculture. ( Cavis- 1. 7, 1772.	es E I. A. Ivin. S:	r. u ruz. L.,

Soil Science. Organic Fertilizers.

1007. : MARBICL., Vo. 3 1759, Vo. 10702

Relyalov, F. K., Shirokov, B. G., Cayrenko, G. I.

Theiryszev Agricultural Academy
Organic-Mineral Fertilizing Mixtures on Southern
Chernotems of Stalingred, Oblost.

1.v. Timiryszevsk. s.-kh. akad., 1957, No. 5, 37-42

on the chernotems of Stalingrad oblant, application of organic-mineral mixtures is a highly effective method and more within the reach of the kilkhotes of this zone since it requires fever expenditures. Organic-mineral mixture applied to a fallow field is not less effective than 20 toom of manure applied in combination with the same amount of mineral fertilizers which are a part of the fertilizing mixture. -- V. D. Astaf'yeva

ISPIRYAN, G.P., kand.tekhn.nauk; SHIROKOV, B.G., inzh.

Economics of cutting out chrome-tanned pigskin butts.

Leg.prom. 17 no.8:7-9 Ag '57.

(Hides and skins)

(Hides and skins)

ISFIRYAN, G.P., kand. tekhn. nauk; KUKULYAN, S.P., inzh.; MALKIMAN, Ye.I., inzh.; SHIROKOV, B.G., inzh.

Tanning hides in butts divided into two portions. Leg. prom. 18 no.3: 11-12 Mr 158. (MIRA 11:4)

SHIROKOV, B.G., inzh.; MERZON, A.G., inzh.

Practical shape of leather to be used for shoe welts. Kozh.obuv.prom. no.9:14-17 S '59. (MIRA 13:2)

(Shoe manufacture)

SHIROKOV, B.G., insh. Methods for grading large hides by their thickness. Kozh.obuv.prom. 2 no.7:24-27 Jl '60. (MIRA 13:8)
(Hides and skins)

VICHNEVSKIY, Yu.S. [Vystenevs kyi, 10.S.]; SHIROKOV, B.G. [Snyrokov, B.H.]

Minufacture of chrome leather by the liming method without coating. Leb. prom. no.4:22.05 0.5 62. (MIRA 16:5)

1. Nikolayovskiy kontevenne-charmay kontinet (for Vishmevskiy).
2. Warainskiy naurhne-isoleisvatellakiy institut kozhevenno-charmay promjehlennesti (for Enirokov).

KHRIPIN, A.G. [Khrypin, A.H.]; BRAGINSKIY, M.A. [Brahins'ky!, M.A.];
BEREZOVSKAYA, M.G. [Berezovs'ka, M.H.]; SHIROKOV, B.G. [Shyrokov, B.H.]; MOROZYUK, M.I.; ROZENBERG, Kn.N.

The ASD-1 unit for drying chrome leather in a dynamic state. Leh. prom. no.2:21-24 Ap-Je 64 (MIRA 17:7)

SHIROKOV, B.G., inzh.; GRISHILO, V.F., inzh.

ng cara ya panganah di maganya magazi kasa karangan bangan bangan bangan bangan bangan bangan bangan bangan ba

Manufacture of shoe materials from several layers of split leather. Kozh.-obuv.prom. 6 no.11:26 N \*64.

(MIRA 1814)

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KONDRAT'YEV, Afanasiy Borisovich, kand.tekhn.nauk; YERSHOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'GEVICH, Petr Kazimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'sko-khoz.nauk: Prinimali uchastiye: Thebia, Boris Nikolayevich, inzh.; OSOBOV, Vadim Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BAENIKOV, P., red.; VOROMKOVA, Ye., tekhn.red.

[Monual for collective farm machinery operators] Spravochnik mekhanizatora seliskogo khoziaistva. Penza. Penzaskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozysystve imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).

(Agricultural machinery) (Farm mechanization)

ZHEGALIN, I.K.; PUSTYGIN, A.A., glav. agronom; SPODELYUK, N.I.;

BYKOV, N.I.; REDIN, P.N., glav. agronom; LOGVIN, N.P., Geroy Sotsialisticheskogo Truda; GUSEV, I.D.; PETROV, S.N.; VLASOV, A.N., glav. zootekhnik; SHEREMET, L.D., glav. bukingalter; SKAKUNOV, N.V., glav. inzh.; SHUMILIN, V.S., glav. inzh.; CHERNORUBASHKIN, N.A., kombayner; DRYABO, N.Ye.; ZABNEV, V.F., redaktor; SHIROKOV, B.G.; SHEPELEV, M.A.; LEONOVA, T.S.; SAYTANIDI, L.D., tekhn. red.

SENCER STREET SERVICE OF THE SERVICE OF THE SENCE OF THE

[Hundred million poods of grain from Stalingrad Province] 100 millionov pudov stalingradskogo khleba. Moshva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 133 p. (MIRA 14:9)

1. Pervyy sekretar' Stalingradskogo oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Zhegalin). 2. Oblastnoye upravleniye sel'skogo khozyaystva Stalingradskoy oblasti (for Pustygin). 3. Nekhayevskiy rayonnyy komitet Kommunisticheskoy partii Sovetskogo Soyuza (for Spodenyuk). 4. Nachal'nik Kotel'nikovskoy rayonnoy sel'skokhozyaystvennoy inspektsii, Krayniy Yugo-vostok(for Bykov). 5. Kolkhoz "Deminskiy" Novo-Annenskogo rayona, Stalingradskoy oblasti (for Redin). 6. Predsedatel' kolkhoza "Zavety Il'icha" Kalininskogo rayona (for Logvin). 7. Nachal'nik Novo-Annenskoy rayonnoy sel'skokhozyaystvennoy inspektsii (for Gusev). 8. Direktor sovkhoza imeni Frunze Serafimovichskogo rayona Stalingradskoy oblasti (for Petrov). 9. Stalingradskoye oblastnoye upravleniye sel'skogo khozyaystva (for Vlasov). 10. Sovkhoz "Dinamo" Nekhayevskogo rayona Stalingradskoy oblasti (for Sheremet). (Continued on next card)

ZHEGALIN, I.K. — (continued) Card 2.

11. Oblastnoye upravleniye sel'skogo khozyaystva Stalingradskoy oblasti (for Skakunov). 12. Sovkhoz "Verkhne-Buzinovskiy" Stalingradskoy oblasti (for Shumilin). 13. Otdeleniye No.6 sovkhoza "Serebryakovskiy" Mikhaylovskogo rayona Stalingradskoy oblasti (for Chernorubashkin). 14. Zven'yevoy kolkhoza imeni Lenina Zhirnovskogo rayona Stalingradskoy oblasti (for Dryabo). 15. Danilovskaya rayonnaya gazeta "Kolkhoznoye znamya" Stalingradskoy oblasti (for Zabnev). 16. Zamestitel' predsedatelya oblastnogo ispolnitel'nogo komiteta Stalingradskoy oblasti (for Shirokov).

(Volgagrad Province-Grain)

USSR/ Physics - Electroosmosis of soil

FD-1043

Card 1/1

Pub. 153 - 14/23

Author

Shirokov, B. I.

Title

Problem of the utilization of the electroosmosis of soil in plowing

Periodical:

Zhur. tekh. fiz., 24, 1474-1482, Aug 1954

Abstract

Experiments with electroosmosis indicate that an electric current can be used as a powerful factor in the immediate action on soil for varying its technological properties during plowing. Laboratory tests show that electroosmosis permits a sharp decrease in resistance of soil to deformation and also lessening of friction of soil against steel. Field tests on the use of electroosmosis in plowing reveal in every case lessened soil and plow resistance. Most effective is a voltage of 120v, current density .008 -.12 a/cm², soil moisture 24-26%, plow depth 20-25 cm; then the resistance decreases 15-17%. Twenty-one references, 10 USSR (e.g. F. F. Engel', 1952).

Institution:

\_ \_

Submitted :

19 March 1954

-HIMCELT, J. I.

SHIRCKOV, B. I. -- "Investigation of the Phenomena of Soil Electro-Csmosis as Applied to Plowing." All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin. All-Union Sci Res Inst of Fertilization, Agricultural Engineering, and Soil Sciences. Moscow, 1955. (Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520018-6"

USSR/Soil Science - Thysical and Chemical Properties of Soils.

т.

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 67889

Author

: Shirokov, B.I.

Inst

: Tenza Agricultural Institute.

Title

: The Influence of Electroosmosis on Soil Structure.

Orig Pub

: Sb. tr. Penzensk. s.-kh. in-ta, 1956, No 1, 322-326.

Abstract

: By applying an electric current to the soil the author was able to study the effect of electroosmosis on soil structure. Specimens of the soil of a water-meadow were collected from the 10-20 cm. horizon without disturbing their structure. The structural state of the soil was computed by Andrianov's method, using the strength of the structural aggregates when exposed to water. A 500 volt current applied for 0.3 and 20 seconds had no effect on the water-strength of the structural aggregates. -- N.A. Kommova

Card 1/1

- 12 -

Ways of improving the productivity of a rock dump. Ugol' 30 no.1: 41-42 Ja '55. (MIRA 8:3)

1. Shakhta No.8 "Lipkovskaya" tresta Krasnogvardeyskugol".
(Mine railroads--Cars)

THE STATE OF THE PROPERTY OF T

FIL'KIN, I.N.; ROZENBLAT, M.M.; SHIROKOV, E.V.

Increasing the reliability of the means of controlling mechanical presses. Kuz.-shtam.proizv. 3 no.7:16-20 Jl '61. (MIRA 14:6) (Power presses) (Automatic control)

Innia decontamination of fresh water on a still. More flot 24 no.12:27-28 D M64. (MRA 38:2)

#### SHIHOKOV, F.A.

Standard specifications for gas-purification apparatus. (In: Bussia (1923- U.S.S.R.) Vsesoyusnaya gosudarstvennaya sanitarnaya inspektsiya. Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.185) (MEMA 7:1)

1. Trest "Gazoochistka" Ministerstva khimicheskoy promyshlennosti.
(Air--Purification)

ANDRIANOV, A.P.; ZAYTSEV, M.M.; IDEL'CHIK, I.Ye.; POPOV, D.D.[deceased]; TEVEROVSKIY, Ye.N.; UZHOV, V.N.; CHUMAK, L.I.; SHAKHOV, G.F.; SHIROKOV, F.A.; TOMCHINA, Ye.I., red.; ZAZUL'SKAYA, V.F., tekhn.

[Battery cyclones; instructions for designing, assembling, and operating] Batareinye tsiklony; rukovodiashchie ukazaniia po proektirovaniiu, montazhu i eksplustatsii. 2. izd. Moskva, Gos. nauchno-tekhn.izd-vo khim. lit-ry, 1959. 103 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po khimii. (Separators (Machines))

ZIL BERHERG, A.Ye., inzh.; SHIROKOV, F.A., inzh.

From the history of the use of silver water. Sudostroenie 29 no.3:21 Mr '63. (MIRA 16:4) (Silver—Physiological effect)

AID P - 825

SHIROKOV,F.I.

Sub.ject : USSR/Engineering

Pub. 78 - 10/26 Card 1/1

Genkin, M. A., Minskiy, Ye. M., Kozlov, A. L., Teverovskiy, Ye. N. and Shirokov, F. I. Authors

Title Cyclonic separator of the VNII (All-Union Scientific

Research Institute)

Periodical: Neft. khoz., v. 32, #9, 41-43, S 1954

Abstract

The cyclone type of water and dust particle separation from natural gas is described. A spiral deflector without moving parts is used for turbulent rotation of gas and a  $180^{\circ}$  turn for particle separation. Apparatuses of various capacities are outlined on 3 drawings. 2 Russian references

(1950-1951).

Institution: Scientific Research Institute. Gas Division (NIIOG)

Submitted : No date

SHIROKOV, F.V.

Hercer's (summability) theorem. Usp.mat.nauk 10 no.4:167-170 '55.
(Serios) (MLRA 9:1)

COTICECY, P.V. "On Senjurite Trisconmetric Coriet." 'naccw Culer of Is in The Wimeni M.". Lowencew. Department of Esthematics. Mechanics and Mathematics Reculty. Yascow, 1956 (Dissertablen for the Decree of Candidate in Physicomethin tical Science):

So: Endshmaya latoria', no. 18, 1956

## "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549520018-6

Sungaration, to V.

USSR/MATHEMATICS/Algebra

CARD 1/2

PG - 430

au bJECT AUTHOR TITLE

PERIODICAL

SIROKOV F.V. Proof of a conjecture of Kaplansky.

Uspechi mat. Nauk 11, 4, 167-168 (1956)

reviewed 12/1956

The author proves the conjecture of Kaplansky: In an associative (non commutative) normalized ring R the commutator c = ab - ba of the elements a and b which is changeable with one of these elements is a quasi-nilpotent clement. For the proof the author starts from the formula

$$\lambda_c + b = e^{\lambda a}b e^{-\lambda a}$$

(it is assumed that c = ab - ba commutates with a) which already appears in a paper of Vidov (Math. Zeitschr. 62, No.3, 330 (1955)). From (1) there follows

follows
$$(\lambda_c + b)^n = e^{\lambda_B} b^n e^{-\lambda_B};$$

(2) is differentiated n times and with aid of the expression

ifferentiated n times and with differentiated 
$$\frac{d^n}{d^{\lambda}} \left( e^{\lambda a} b^n e^{-\lambda a} \right) = \sum_{k=0}^{n} (-1)^k {n \choose k} e^{\lambda a} e^{-\lambda a}$$

**APPROVED FOR RELEASE: 08/23/2000** CIA-RDP86-00513R001549520018-6"

SHIROKOV, F.V. (Moscow)

How mathematical discoveries are made ("Mathematics and plausible reasoning" [in English] by G. Polys. Reviewed by F. V. Shirokov).

Mat. pros. no.2:303-306 '57. (MIRA 11:7)

(Mathematics)

STSILARD, K.S. [translator]; SHIROKOV, F.V. [translator].

Pridesh Riss; obituary [translated from the Hungarian by K.S.Stsilard and F.V.Shirokov]. Usp.mat.nauk 12 no.4:155-166
J1-Ag '57.

(Riss, Fridesh, 1860-1956)

(MIRA 11:9)

SHIROKOV, F.V.

Translated mathematics books for publication by the publishing house for foreign literature in 1958. Mat. pros. no.3:315-318

158.

(Bibliography -- Mathematics)

KHUA LO-KEN [Hua Lo-keng]; YEVORAFOV, M.A. [translator]; ORAYEV, M.I., red.; SHIROKOV, F.V., red.; REZOUKHOVA, A.G., tekhn.red.

[Harmonic analysis of functions of several complex variables in classical domains] Garmonicheskii analiz funktsii mnogikh kompleksnykh peremennykh v klassicheskikh oblastiakh. Pod red.
M.I.Graeva. Moskva, Izd-vo inostr.lit-ry, 1959. 163 p. Translated from the Chinese. (MIRA 13:4)

(Functions of complex variables)

84758

16,2600

S/042/60/015/004/016/017XX C111/C222

AUTHOR: Shirokov, F.V.

TITLE: The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers)

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol.15, No.4, pp.185-192

TEXT: Let X be a space with a completely G -finite measure M, T be a mapping of X into itself which preserves the measure M, f(x) be an integrable function defined on X. The question of Halmos (Ref.1) on a suitable definition of a recurrent sequence is solved in the following manner:

manner: Let  $\{a_j\}_0^\infty$  be a sequence of finite real numbers; t - real number,  $-\infty < t < \infty$ . Among the first n terms of the sequence those are selected which are  $\leq t$ . Let  $k_n(t)$  be their number divided by n. Beside of the given sequence  $\{a_j\}_0^\infty$  the author considers sequences  $\{a_j^+(A)\}_0^\infty$  and  $\{a_j^-(A)\}_0^\infty$ , where A is arbitrarily real. Here  $a_j^+(A) = 0$  for  $a_j < A$ ,  $a_j^+(A) = a_j$  for  $a_j < A$ ,  $a_j^-(A) = 0$  for  $a_j > A$ .  $k_n(t)$  is denoted as density, k(t) as limit density.

Card 1/3

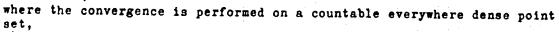
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S/042/60/015/004/016/017XX C111/C222

The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers)

Definition: The sequence  $\{a_j\}_0^{\infty}$  is called recurrent if

- d) there exists the limit value
- $\lim_{n\to\infty} k_n(t) = k(t),$ (1)



- $\beta$ ) to every  $\ell > 0$  there exists an A > 0, so that for all n it holds
- (2)  $\left|\frac{1}{n}\sum_{j=0}^{n-1}a_{j}^{+}(A)\right| < \mathcal{E}$ ,  $\left|\frac{1}{n}\sum_{j=0}^{n-1}a_{j}^{-}(-A)\right| < \mathcal{E}$ .

  Theorem 1: The recurrent sequence  $\left\{a_{j}\right\}_{0}^{\infty}$  is summable according to the method

(C,1) with the finite value 
$$L = \int_{-\infty}^{\infty} t \, d \, k(t)$$
,

Card 2/3

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S/042/60/015/004/016/017XX C111/C222

The Solution of a Problem Formulated by Halmos (Notion of a Recurrent Sequence of Numbers)

Theorem 2: The sequence  $\{f(T_X^i)\}$  is almost everywhere recurrent. If here the transformation T is ergodic, then the limit density k(t), in general depending on x, is the same almost everywhere on X. This function k(t) is Case 1:  $\mu(X) < \infty$ 

 $k(t) = M(G_t)/M(X)$ , where the set  $G_t = \{y: f(y) \le t\}$ .

Case 2:  $\mu(x) = \infty$   $k(t) = \begin{cases} 1 & \text{for } t > 0 \\ 0 & \text{for } t < 0. \end{cases}$ 

The author thanks S.V. Fomin for attention. There are 3 references: 1 Soviet and 2 Japanese.

[Abstracter's note: (Ref.1) concerns P.R.Halmos, Lectures on Ergodic

ENERGY TO THE PROPERTY OF THE

SUBMITTED: February 16, 1959 Card 3/3

GEL'FAND, Izrail' Moiseyevich; VILENKIN, Naum Yakovlevich; SHIROKOV, F.V., red.; YERMAKOVA, Ye.A., tekhn.red.

[Some applications of harmonic analysis. "Fitted" Hilbert spaces]
Nekotorye primeneniia garmonicheskogo analiza. Osnashchennye
pil'bertovy prostranstva. Moskva, Gos.izd-vo fiziko-mat. lit-ry,
1961. 472 p. (Obobshchennye funktsii, no.4). (MIRA 14:8)
(Harmonic analysis) (Hilbert space)

YELFH'SKIY, Shchepan [Jelenski, Shchepan]: BOYARSKAYA, G.F. [translator]; BOYARSKIY, B.V. [translator]; YAKUSHEV, A.A. [translator]; SHIROKOV, F.V., nauchnyy red.; MIKOYAN, E.P., otv. red.; MARKOVICH, S.G., tekhn. red.

[Following the tracks of Pythagoras; entertaining mathematics] Posledam Pifagora; zanimatel naia matematika. Moskva, Gos. izd-vodetskoi lit-ry M-va prosv. RSFSR, 1961. 485 p. Translated from the Polish. (MIRA 14:9)

(Mathematics-Juvenile literature)

GEL!FAND, Izrail! Moiseyevich; GRAYEV, Mirk Tosifovich; VILENKIN, Nacz. Yakovlevich; SHIROKOV, F.V., rei.: KRYCHKOVA, V.N., tekhn.red.

Reserved Control of the Action of the Action

[Integral geometry and problems of the theory of representations connected with it] Integral nais geometria i sviazennyes nei voprosy teorii predstavlenii. Moskva, Gos. izd-vo fizikomatem. lit-ry, 1962. 656 p. (Obobshchennye funktsii, no.5).

(MIRA 16:2)

(Geometry, Modern) (Functional aanalysis)

"Converting a diffusion process into a Wiener one" by I.D.
Cherkasov, Reviewed by F.V.Shirokov, Teor. verolat, i ee prim.
3 no.1:175-177 '64. (MIRA 17:4)

IOSTNIKOV, Mikhail Mikhaylovich; SHIROKOV, F.V., red.

[Variational theory of geodesics] Variatsionnaia teoriia geodezicheskikh. Moskva, Nauka, 1965. 248 p. (MIRA 18:7)

GOKHDERG, Izrail' TSudikovich; KREYN, Mark Grigor'yevich; SHIROKOV, F.V., red.

是这个时间,可以为此时,可以为对于在一个的时间,可以可以是一个时间,可以是一个时间,可以是一个时间,可以不是一个时间,可以是一个时间,可以不是一个时间,可以是一

[Introduction to the theory of linear non-self-adjoint operators in Hilbert space] Vvedenie v teoriiu lineinykh nesamosopriazhennykh operatorov v gil bertovom prostranstve. Moskva, Nauka, 1965. 448 p. (MIRA 19:1)

- 1. SHIMOMOV, J.C.
- Z. JSSR (000)
- 4. Telecommunication
- 7. They are studying for a second profession, Sov. sviaz., 3, No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

18(5)

SOV/112-59-2-3520

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 184 (USSR)

AUTHOR: Dubrov V. M., and Shirokov, G. G.

TITLE: Controlling a Group of Guiding-Rope Winches (About an Article by Ye. F. Sklyarenko) (Upravleniye gruppoy lebedok dlya napravlyayushchikh kanatov /Na stat'yu Ye F. Sklyarenko/)

PERIODICAL: Shakhtnoye str-vo. 1958. Nr 1, pp 21-22

ABSTRACT: Disadvantages are listed of the scheme for controlling a group of guiding-rope winches described in an article by Ye F. Sklyarenko (see Referativnyy Zhurnal, Elektrotekhnika, 1958, 19760). Operating experience is reported with installations for joint control of winches developed by Giproshakhtostroymash. One illustration.

Card 1/1

DUFROV, V.H., inzh.; SHIROKOV, G.G., inzh.

Electric signal system used in shaft sinking. Bezop.truda v prom. 4
no.4:24 Ap '60.

(Electricity in mining)

KAN MAROV, A.V.; KUROCHKIN, B.N.; SHIROKOV, G.I.; KOKARKV, N.I., dotsent, retsensent; PANVILOV, M.I., inzhener, retsenzent.

[Thermal processes of open-hearth furnaces in rapid steel making]
Teplovye rezhiny martenovskikh pechei pri skorostnom stalevarenii.
Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1953. 140 p. (MLRA 7:6)

1. VNIIT. (Open-hearth process)

KHODAKOVSKIY, V.V.; YEFIMOV, V.A., kand. tekhn. nauk, starshiy nauchnyy rabotnik; KOSENKO, P.Ye., kand. tekhn. nauk; KAZAKEVICH, S.S.;
LAPITSKIY, V.I., prof., doktor tekhn. nauk; FILIP'YEV, O.V.;
STROGANOV, A.I., kand. tekhn. muk, dots.; DEMIDOVICH, A.V.;
BORNATSKIY, I.I., kand. tekhn. nauk; MEDZHIBOZHSKIY, M.Ya., dots.;
KOCHO, V.S., prof., doktor tekhn. nauk; HYN'KOV, V.I.; LOMAKIN,
L.M., mladshiy nauchnyy sotrudnik; KCKAREV, N.I., dots.; KLYUGHAREV,
A.P.; PLYUSHCHENKO, Ye.A.; KAPUSTIN, Ye.A., kand. tekhn. nauk, dots.;
KOBEZA, I.I., kand. tekhn. nauk, nauchnyy sotrudnik; SHIROKOV, Q.I.;
UMRIKHIN, P.V., prof., doktor tekhn. nauk; LEZHAVA, K.I.; ZHIGULIN,
V.I.; MCROKOV, P.K.; KHLEBNIKOV, A.Ye., prof., doktor tekhn. nauk,
starshiy nauchnyy sotrudnik; TARASOV, N.S.; NIKOLAYEV, A.G.

Discussions. Biul. TSNIICHM no. 18/19:40-66 157. (MIRA 11:4)

1. Starshiy inzhener Glavspetsstali Ministerstva chernoy metallurgii SSSR (for Khodakovskiy). 2. Institut gaza (for Yefimov). 3. Direktor Dneprodzerzhinskogo metallurgicheskogo instituta (for Kosenko). 4. Nachal'nik laboratorii Leningradskogo instituta ogne-uporov (for Kazakevich). 5. Zaveduyushchiy kafedroy metallurgii stali Dnepropetrovskogo metallurgicheskogo instituta (for Iapitskiy). 6. Nachal'nik laboratorii Giprostali (for Filip'yev). 7. Chelyabinskiy politekhnicheskiy institut (for Stroganov). 8. Nachal'nik teplotekhnicheskoy laboratorii Severskogo metallurgicheskogo zavoda (for Demidovich). 9. Zamestitel' nachal'nika TSentral'noy zavodskoy laboratorii Makeyevskogo metallurgicheskogo zavoda (for Bornatskiy). (Continued on next card)

KHODAKOVSKIY, V.V. --- (continued) Card 2.

10. Sibirskiy metallurgicheskiy institut (for Medzhibozhskiy). 11. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho). 12 Ispolnyayushchiy obyazannosti glavnogo inzhenera Beloretskogo metallurgicheskogo kombinata (for Ryn'kov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Lomakin). 14. Ural'skiy politekhnicheskiy institut (for Kokarev). 15. Zamestitel' nachal'nika teplotekhnicheskoy laboratorii Nishne-Tagil'skogo metallurgicheskogo kombinata (for Klyucherov), 16. Nachal nik teplotekhnicheskoy laboratorii TSentral noy zavodskoy laboratorii zavoda im. Voroshilova (for Plyushchenko). 17. Zhdanovskiy metallurgicheskiy institut (for Kapustin). 18. Institut metallurgii im. Baykova AN SSSR (for Kobeza). 19. Nachal 'nik laboratorii martenozskikh pechey Vsesoyuznogo nauchno-issledovatel skogo instituta metallurgicheskoy teplotekhniki (for Shirokov). 20. Zaveduyushchiy kafedroy metallurgii stali Ural'skogo politekhnicheskogo instituta (for Umrikhin). 21. Machal nik metallurgicheskoy laboratorii TSentral noy savodskoy laboratorii Zakavkazskogo metallurgicheskogo zavoda (for Lezhava). 22. Zamestitel' glavnogo inzhenera zavoda im. Petrovskogo (for Zhigulin). 23. Nachal'nik martenovskogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Morokov). 24. Institut metallurgii im. Baykova AN SSSR (for Ehlebnikov). 25. Glavnyy inzhener Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for Tarasov). 26. Machal'nik tsekha Magnitcgorskogo metallurgicheskogo kombinata (for Nikolayev).

(Open-hearth process)

SHIROKOV, G.I.

Use of oxygen in open-hearth furnaces. Trudy NTO chern. met. 20:402-408 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.
(Open-hearth furnaces)

TEWSHIF, Aleksandr Sergeyevich; KAVADEROV, A.V., doktor tekhn. nauk, red.; SHIMOKOV, G.I., retsenzent; YAKOVENKO, N.N., red. izd-va; KARASEV, A.I., tekhn. red.

[Heat transfer in open-hearth furnaces] Teploperedacha v martenovskikh pechakh. Moskva, Metallurgizdat, 1963. 229 1. (MIRA 17:2)

TEISMER, L.I., SHIRCKOV, G.K.

"The correlation between the production of capital goods and the production of consumer goods permitting the most effective development of an independent economy in undeveloped countries."

Report submitted to the Conf. on the Application of Science and Technology for the Benefit of the Less Developed Areas.

Geneva, Switzerland 4-20 February 1963

SHIROKOV, I., komandir samoleta An-2 (Salekhard)

Two suggestions. Grazhd. av. 19 no.4:26 Ap '62. (MIPA 15:5) (Aeronautics, Commercial-Technological innovations)

SHIPOKOV, I.K., nauchnyy sotrudnik

Replantation of teeth in acute odontogenic osteomyelitis. Trudy Nauch.-issl.inst.stom. no.10:79-84 '62. (MIRA 15:10) (OSTEOMYELITIS) (DENISTRY, OPERATIVE)

UBSR/Klectricity
Currents, Electric - Leakage
Transmission Lines

Mar 1948

"Cases of Ignition of Wooden Posts From Leakage Currents on 35 and 2 Kilowatt Electric Transmission Lines," I. L. Shirokov, KazknergoWeft', 32 pp

"Energeticheskiy Byulleten'" No 3

In 1945 there were 14 cases of ignition of transmission line poles recorded in KazEnergoNeft' trust. Meteorological conditions, mechanical conditions and all other aspects of this problem are discussed.

61122

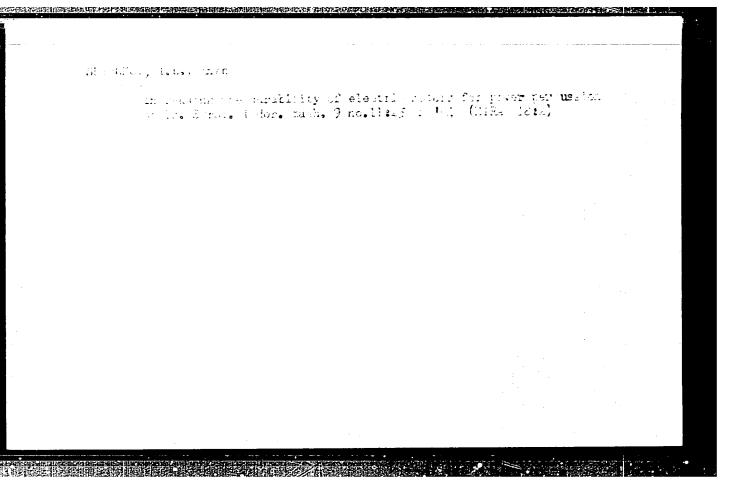
#### "APPROVED FOR RELEASE: 08/23/2000

## CIA-RDP86-00513R001549520018-6

PA 42/49T9 SHIROKOV, I. L. Mar 49 USSR/Electricity Power Plants, Diesel Gears "Alteration of Type RBA-11 Gear," I. L. Shirokov, 1 p "Energet Byul" No 3 Discusses alteration of type RBA-11 gear due to a difficulty which developed at the relay protection of the 6,000-volt side of the feeder during the start of operation of the electric transmission power-system line, uniting two Diesel electric stations. Gives two diagrams of mechanism. 42/49T9

SHIROKOV, I.L., inzhener.

Device for pressing stater ceil ends for the electric metors of power teels. Strei. i der.mashinestr. ne.7:32 Jl '56.(MIRA 9:10) (Blectric meters)



Winter flowering of ash. Priroda 50 no.11:127 N '61.

(Caucasus—Winter)

A LIFE MOTOR LA	P501068c	UR/0141/65/	008/001/0162/0168	
AUTHOR: Levitski	y, S. M.; Yavlinskiy, A. Ya	.; Shirokov, I. V.	• *	
	constant electric and magn lse discharge in a gas	netic fields on the	formation time	
SOUPCE: IVUZ. R	adiofizika, v. 8, no. 1, 19	×65, 162-168		
TOPIC TAGS: micr	owave discharge, discharge	formation time, micr	owave commutator,	
enting the discussion of	thors investigated the infl ne forming time of microway	re puise discharges i	n air at pressures	
-135 ಹಾಗಿದ್ದಾಹಕಾರಾಣ್ ಕರ್ಮಕ್ಕಳ	The research was motivat pulses, the duration of the pration of the pulse itself ore itsenanges to an rowave	e discharge forming t , making it difficul	ime may be commen- t to emply con-	
	fine Enclosure. A pals microsecond duration with		•	
ard 1/4				

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The generator frequency was 2832 Mcs. A measured fraction of the generator power was used to excite the investigated high-frequency discharge in a discharge tube installed in a resonator. The shape of the pulse passing through the resonator is shown in Fig. 1 of the Enclosure as a function of the constant magnetic field and shown as any voltage. The results indicate that the constant electric field magnetic field reduces the shaping (near cyclotron resonance), whereas a constant magnetic field reduces the shaping time, so that the joint effects of the field shape a tendency to cancel each other. Physical reasons for these magnetic discussed. The authors thank Z. A. Plyatsok for help with the moved and discussed. The authors thank Z. A. Plyatsok for help with the

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State University)

SUBMITTED: 04Apr64

ENCL: 02

SUB CODE: EC, EM

NO REF 80V: 001

OTHER: 005

ATD PRESS: 4002

Cord 2/4

SHIMOMOV, I. I.

"The Effect of Vitamin Bl on the Secretory Function of the Stomach," Sov. Med., No. 1, 1948 Mor., Propaedeutics Clinic, 1st Moscow Ord. Lenin Med. Inst. -c1948-.

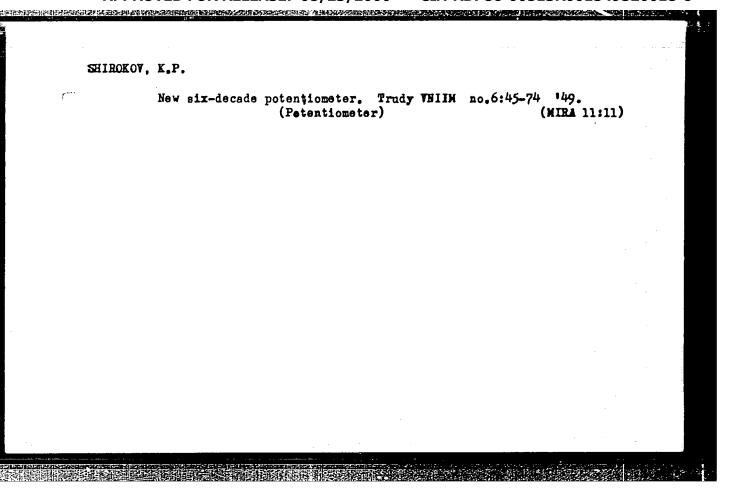
这种证据可靠证明的现在分词是是1998年的对象的是对关的的数据,使用2000年的通过的数据的数据的数据的数据的数据的数据的数据的数据的数据的数据的数据的数据的

LIFOVSKAYA, Valentina Mikhaylovna; SHIROKOV, K.A., red.

[Experience in the work of the volunteer bureau of technical information in the Kirov Spinning and Yarn Combine] Opyt raboty obshchestvernogo biuro tekhnicheskoi informatsii priadil'no-nitochnogo kombinata im. S.M. Kirova. Leningrad, 1964. 26 p. (MIRA 18:4)

Testing potentiometers by Diesselhorst's method. Trudy VNIIM
no.1:72-95 '47. (MIRA 11:11)

(Potentiometer--Testing)



SHIROKOV, K.P.

Set of instruments for checking ammeters and voltmeters at a.c. higher frequencies. Trudy VNIIM no.24:24-56 154. (MIRA 10:12) (Ammeter) (Voltmeter)

SHIROKOV, K. P.

"Corrections of Readings of Certain Compensator Types of Direct Current" To. Vses. n-i. In-ta Metrologii, No 24, 1954, 77-94

Discussed are electrical circuits of the most used types of pentade-cade compensators PV-1, PV-2, PV-6, PN-1, and PN-2 of the "Etalon" plant, the "ladder" "stage" and bridge types for measuring low end (fx types PPTM and KL-48), and bridge type PMS-48. Analysis of formulas derived for corrections of the instruments require complex computations. Most easily corrected are compensators of the type PV-6 of the "Etalon" plant and the bridge compensator PS-48. These two types of compensators give the highest accuracty of measurements. (RZhFiz, No 9, 1955)

30: 3um-ilo 787, 12 Jan 56

no.24:94-104 '54. (Blectric instruments)	SHIROKO	Precision instrument no.24:94-104 54.	for balancing double bridges	Trudy VHIIN (NIRA 10:12)
		**************************************	(MISOLLIG THEALGRAPHS)	

112-3-6147

Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 158, (USSR) Translation from:

200元,创新进行,100元的190万,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,190万元,

AUTHOR:

\* 11 11 6 A

Shirokov, K.P.

TITLE:

Use of Quadrant Electrometer for Checking Wattmeters on Alternating Current at Higher Frequencies (Primeneniye

kvadrantnogo elektrometra dlya poverki vattmetrov na

peremennom toke povyshennoy chastoty)

1956, Nr 28, pp. 5-19 PERIODICAL: Tr. Vses. n.-1. in-ta metrol.,

A new type of electrometer (author's certificate ABSTRACT:

No. 100156) was developed for measuring a-c power at higher frequencies. The instrument differs from previous electrometers in that zero adjustment is made by means of a magnetoelectric resetter, which is deflected by auxiliary direct current. As explained in the author's description of the theory of operation, there is no need for rigid requirements of shape and symmetrical arrangement of quadrants and bisque, constant twisting torque of

the suspension, and graduation of many points on the scale;

Card 1/2

112-3-6147

Use of Quadrant Electrometer for Checking Wattmeters on Alternating Current at Higher Frequencies (Cont.)

the accuracy of the readings is greater, and it becomes possible to determine the constant of the instrument for the frequency at which it will be used. The construction of the electrometer is described, its basic parameters are presented, and an analysis is made of the error of the method, on the basis of which a conclusion is drawn concerning the applicability of this method to accurate power measurements (on the order of several hundredths of a per cent), at frequencies up to several tens of thousands of cps. Finally, the results of several experimental studies substantiating the theoretical conclusions are presented.

M.A.B.

Card 2/2

SHIROKOV, K.P.; GINZBURG, V.A.

Effect of magnetic fields on manganin resistors. Trudy VNIIM no.28:
(MIRA 10:12)

102-106 '56.
(Magnetic fields) (Electric resistance)

ARUTYUNOV, V.O.; GORBATSEVICH, S.V.; ZUBRILIN, V.P.; KOLOSOV, A.K.; ROMA-NOVA, M.F.; TIKHODEYEV, P.N.; CHERNYSHEV, Ye.T.; SHIROKOV, K.P.; SHRAMKOV, Ye.G.; YANOVSKIY, B.M.

Mikhail Fedoseevich Malikov on his 75th birthday. Ism. tekh. no.2: 85-86 Mr-Ap '57. (MIRA 10:6)

(Malikov, Mikhail Fedoseevich, 1882-)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520018-6"

ARTYUNOV, V.P.; DOLINSKIY, Ye.P.; KOLGSOV, A.K.; MAKSIMOV, L.M.; ROKANOVA, M.F.; RUDO, N.M.; CHECHURINA, Ye.N.; SHIROKOV, K.P.; SHRAVKOV, Ye.C.; YANOVSKIY, B.H.

E.T. Chernyshev; 50th birthday anniversary and 30th anniversary of scientific and pedagogic activities, Ism. tekh. no.3:91 My-Je '57. (Chernyshev, Evgenii Titovich, 1907-) (MLRA 10:3)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520018-6"

SHIROKOV, K.P.; SHRAMKOV, Ye.G.

Metrological work in the field of electric and magnetic measurements.

Izm. tekh. no.6:61-64 N-D '57.

(Electric measurements) (Magnetic measurements)

SHRAMKOV, Yo.G.; GORBATSEVICH, S.V.; KOLOSOV, A.K.; DROTKOV, I.H.; ROZHDESTVENSKAYA T.B.; SHIROKOV, K.P.; CHERNYSHEV, Yo.T.; YAROVSKIY, B.M.

THE STREET WITH THE PROPERTY OF THE PROPERTY O

1. Rukovoditel' otdela elektricheskikh i magnitnykh izmereniy Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni D.I. Mendeleyeva (for Shramkov). (Electric measurements) (Magnetic measurements)

SHIROKOV, K.P.

Precision in checking the electric resistance devices. Trudy
VNIIM no.38:86-102 '59. (MIRA 13:4)
(Electric resistors)

SHIROKOV, K.P.

Check sheets developed by the All-Union Scientific Research Institute of Metrology. Izm.tekh. no.7:12-16 Jl '60.

(Weights and measures-Testing)

(Weasuring instruments-Testing)

SHIROKOV, K.P.

Graphic method of working up bathythermograph readings. Trudy GOIN no.55:224-229 160. (MIRA 14:7)

DETIN, V.V.; CHIROKOV, K.P.

Determining the elements of ice drift in the sea from the airplane. Trudy GOIN no.63:64-77 '61. (MIRA 14:8)

(Sea ice) (Aerial photogrammetry)

### SHIROKOV, K. F.

Draft recommendations of the All-Union Research Institute of Metrology "Basic metrological terms and definitions." Trudy inst. Kom. stand. mer i izm. prib. no.57:101-122 '62.

(MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva.

(Mensuration—Terminology)

Innovations 163.	in the measurement of mass. Izm.tekh, no.2:24 F (MIRA 16:2) (Weights and measures)

BOGUSLAVSKIY, Moisey Grigor'yevich, kand. tekhn.nauk; KREMLEVSKIY, Panteleymon Petrovich, kand. tekhn. nauk; OLEYNIK, Boris Nikolayevich, kand. tekhn. nauk; CHECHURINA, Yekaterina Nikolayevna, kand. tekhn.nauk; SHIROKOV, Konstantin Pavlovich, kand. tekhn.nauk; BURDUN, G.D., doktor tekhn.nauk, retsenzent; RYSKO, S.Ya., red.izd-va; MEDVEDEV, L.Ya., tekhn. red.

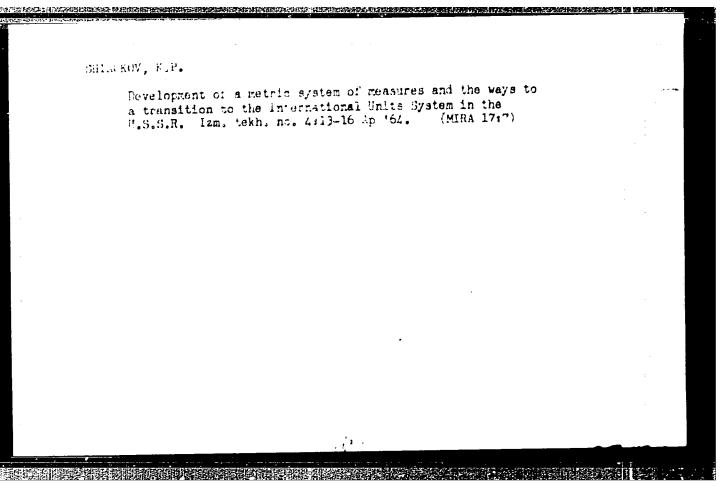
[Tables for the conversion of measurement units] Tablitsy perevoda edinits izmerenii. [By] M.G.Boguslavskii i dr. Moskva, Standartgiz, 1963. 116 p. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva (for Boguslavakiy, Kremlevskiy, Oleynik, Chechurina, Shirokov).

BURDUN, Grigoriy Dmitriyevich, prof.: KALASHNIKOV, Nikolay Vasil'yevich; STOTSKIY, Lev Rudol'fovich; VUKALOVICH, M.P., prof., doktor tekhn. nauk, laureat Leninskoy premii, retsenzent; SHIROKOV, K.P., doktor tekhn. nauk, retsenzent; PERKOVSKAYA, G.Ye., red.

[International system of units] Mezhdunarodnaia sistema edinits. Moskva, Vysshaia shkola, 1964. 273 p.
(MIRA 17:11)

1. Rukovoditel' kafedry teoreticheskikh osnov teplotekhniki Moskovskogo energeticheskogo instituta (for Vukalovich).
2. Rukovoditel' metrologicheskogo otdela Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii im. D.I. Mendeleyeva (for Shirokov).



#### CIA-RDP86-00513R001549520018-6 "APPROVED FOR RELEASE: 08/23/2000

ACCESSION NR: AT4038922

\$/2634/64/000/071/0125/0140

AUTHOR: Betin, V. V.; Losev, S. M.; Shirokov, K. P.

TITLE: Aerial photography of marine ice floes

SOURCE: Moscow. Gosudarstvenny\*y okeanograficheskiy institut. Trudy\*, no. 71, 1964. Issledovaniye izmenchivosti ledovitosti nekotory\*kh morey (Investigating the variability in ice formation on some seas), 125-140

TOPIC TAGS: oceanography, drift ice, ice floe, aerial photography, ice flow photography, marine ice

ABSTRACT: This extensive article is in four parts. In the first section, the authors discuss aerial photographic field work in general terms. Cartographic and reconnaissance factors are considered which must precede the actual photographic operations. Recommendations are given regarding the linear value of the base for various frame formats, scale and camera types. Tack length is also considered for situations involving photography along the shore, along the fast' ice line (shore ice) and over open water. It is pointed out that an extremely desirable condition when selecting the routing is the possibility of a two-way connection or orientation of that routing with certain fixed features (islands,

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#### CIA-RDP86-00513R001549520018-6 "APPROVED FOR RELEASE: 08/23/2000

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capes, promontories, fast ice zone, etc.). The time intervals between subsequent sorties are to be so scheduled that not less than 50% of the floating ice area recorded on the pictures of a preceding tack is represented on the next succeeding aerial photography routing. The use of the smallest possible scale is recommended and the reasons why, in aerial photographic work involving the study of ice drift, this scale should always be minimal for given resolution of the equipment, corresponding meteorological conditions and dimensions of the ice floes to be photographed are explained. The importance of parallel observations over surface currents in the gaps between floes is noted. Recommendations are given with respect to the depth of immersion of float buffers and the point is made that this depth should correspond to the thickness of the ice. The authors note that it is advisable to carry out aerial photography in parallel with two cameras capable of simultaneously photographing at two scales: 1: 20,000 - 1: 40,000. for the ice drift proper and 1: 5,000 for the disposition of the floats. The second part of the article analyzes the results of the aerial photography performed in the Gulf of Finland in 1961. This material was broken down into three groups. The first group contains materials obtained in photo passes made along the coast or the edge of the fast ice (coast ice); the second group contains material from cantilever extensions; the third group contains the material from

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closed passes, resting at fixed reference points on both ends. The data processing of the information from all three groups is discussed in this section. The authors point out that the determination of the elements of ice drift on the basis of the materials of each of these groups is possible through the use of graphic photo-triangulation. However, for the first group, under certain conditions, the problem may be simplified somewhat with no appreciable loss of accuracy in the results obtained. For this purpose, it is sufficient to limit oneself to the use of conventional photo. layouts (aerial mosaics, in this case), mounted from contact prints, without recourse to the plotting of photo-triangulation nets. Since the problem of the processing of aerial photography material on drift ice is of definite interest, the authors have considered it necessary to consider the peculiarities of this problem in detail as they apply to each of the three cases. The third section of the paper deals with method accuracy. The ice drifting elements, obtained as a result of the processing of the material for each of the three groups above, naturally contain errors. Since the character of these errors and their magnitude will be somewhat different in each separate case, the degree of accuracy in the results derived will also be different. For all three processes, the accuracy in the determination of the speed and direction of the drift will increase as the route length decreases, as the duration of the time interval between sorties increases and as the drift speeds والانفارة أألأ للمنط فيتتفيين وأوار وتقد المتعالي أراز والمتاري والأراث 3/6

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increase. Since the speed of the drift is independent of human intervention, in order to obtain drift material of given accuracy only the first two elements can be varied. It is not always possible to reduce the route length, since this is limited by the region under study. Consequently, all other conditions being equal, the accuracy of the derived information can be enhanced solely by increasing the time interval between contiguous tacks. The problem is analyzed mathematically in the article. In the example considered by the authors (axposure scale 1: 20,000; base number 23 - 25; time between sorties about 1 hour; drift on the order of 0.5 km/hour) the errors in the center section of the photo passes were not more than 15% for the speed of drift, and not more than 10% for the direction. The fourth and final section of the article gives a detailed description of the use of repetitive aerial photography for the study of ice drifting in Kursh Bay (Kurshkiy zaliv) and in the adjacent area of the Baltic Sea. The ice was photographed over the same routes which were so layed out that it was possible, at least along the edge of the picture, to obtain an image of the coastal strip of dry land. In this way, a point of reference on the coast line was provided for all pictures and the position of the ice flows was strictly coordinated on the basis of orientation markers on the shore. This section is supplemented with charts and maps. The data on ice drifting obtained in this

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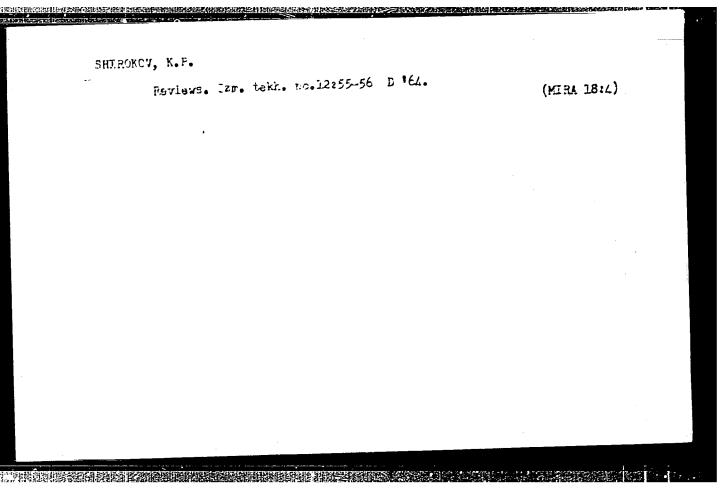
ACCESSION NR: AT4038922

operation make it possible to recommend the method for wide use in the investigation of ice drifting both in open as well as in coastal waters. The general conclusions reached by the authors in this article can be summarized as follows: 1. The use of the method of repeated serial photographic tacks permits the establishment of the laws of ice drifting as a function of wind conditions, while at the same time embracing all the varieties of ice encountered at sea. 2. Experience in the use of aerial photography for the study of ice drift conditions makes it possible to recommend this method for practical utilization. 3. Aerial photography operations can be carried out over routes enclosed between two objects on dry land, by cantilever extension routes or by routes running along the coast line or edge of the fast ice (coast ice). 4. The smallest scales permissible under the given weather conditions, flow dimensions and resolving power of the photographic equipment in use should be employed. 5. Before photographing an ice drift from the air, it is expedient to drop special floats containing a charge of fluorescent material in the intervals between the floes. In this connection, the exposure should be made on two scales: on a small scale for the ice drift . proper, and on a larger scale for the disposition of the floating markers. 6. Meteorological conditions (cloud formation, visibility, illumination) place the same constraints on the use of aerial photography for the study of ice drifting as on its other applications. Problems relating to the accuracy of the determin-

equire further development a ormulas. SSOCIATION: Gosudarstvenny	t sea by the method of vertice and refinement. Orig. art. has by okeanograficheskiy institut	•	
institute of Oceanography)			
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SHIROKOV, K.P.

Principles of the structure of the International System of Units. Izm. tekh. no. 10:44-50 0 '64 (MINA 18:2)



MALIKOV, Sergey Fedoseyevich; TYURIK, Nikolny Ivanovich
DOLRISKIY, Ye.F., retsenzent; SHLOKOV, K.P.,dokt.tekhn.
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